

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 01802 PCT	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/JP 01/ 02261	International filing date (day/month/year) 22/03/2001	(Earliest) Priority Date (day/month/year)
Applicant FUJITSU LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :
 - contained in the international application in written form.
 - filed together with the international application in computer readable form.
 - furnished subsequently to this Authority in written form.
 - furnished subsequently to this Authority in computer readable form.
 - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
 - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. Certain claims were found unsearchable (See Box I).

3. Unity of invention is lacking (see Box II).

4. With regard to the title,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

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None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 01/02261

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01R33/09

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>UENO M ET AL: "Read-write performance of spin-filter-spin-valve heads" INTERMAG 2000 DIGEST OF TECHNICAL PAPERS. 2000 IEEE INTERNATIONAL MAGNETICS CONFERENCE, TORONTO, ONT., CANADA, 9-13 APRIL 2000, vol. 36, no. 5, pt.1, pages 2572-2574, XP002183460 IEEE Transactions on Magnetics, Sept. 2000, IEEE, USA ISSN: 0018-9464 the whole document</p> <p>---</p>	1-5,7,8
Y	<p>EP 0 845 820 A (MATSUSHITA ELECTRIC IND CO LTD) 3 June 1998 (1998-06-03) page 8, line 44 -page 9, line 26</p> <p>---</p> <p>-/-</p>	1-5,7,8



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

20 November 2001

06/12/2001

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Swartjes, H

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP 01/02261

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
EP 0845820	A 03-06-1998	EP 0845820 A2	JP 3092916 B2	JP 11008424 A	03-06-1998 25-09-2000 12-01-1999
WO 0063714	A 26-10-2000	WO 0063714 A1			26-10-2000

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 01/02261

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00 63714 A (GAO ZHENG ;MAO SINING (US); XUE SONG S (US); SEAGATE TECHNOLOGY LL) 26 October 2000 (2000-10-26) page 2, line 32 -page 3, line 2 ---	1,6
A	SWAGTEN H J M ET AL: "ENHANCED GIANT MAGNETORESISTANCE IN SPIN-VALVES SANDWICCHED BETWEEN INSULATING NIO" PHYSICAL REVIEW, B. CONDENSED MATTER, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 53, no. 14, PART 2, 1 April 1996 (1996-04-01), pages 9108-9114, XP000594205 ISSN: 0163-1829 page 53, right-hand column, line 38 - line 46 ---	1-7
A	WANG D ET AL: "EFFECT OF Au UNDERLAYERS ON GMR PROPERTIES OF NiFe/Cu/CoFe SANDWICHES" IEEE TRANSACTIONS ON MAGNETICS, IEEE INC. NEW YORK, US, vol. 32, no. 5, 1 September 1996 (1996-09-01), pages 4728-4730, XP000634119 ISSN: 0018-9464 -----	